

**APPARATUS AND METHOD FOR THREE-DIMENSIONAL  
RELATIVE MOVEMENT SENSING**

**Abstract of the Disclosure**

An apparatus for sensing three-dimensional relative movement includes a movable motion sensor including a first and a second two-dimensional array of photo detectors. At least one lens directs far-field images onto the first and the second arrays of photo detectors. The sensor is configured to generate digital representations of the far-field images and to generate three-dimensional relative movement data based on the digital representations of the far-field images. The movement data is indicative of motion of the sensor in three dimensions.

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